

eXLink Ethernet/USB

Plug-in bus connection

 **COOPER** Crouse-Hinds



eXLink ETHERNET / USB

eXLink 4-pole + PA

The inlets and receptacles **eXLink Ethernet** and **eXLink USB** extend the proven connector series **eXLink** for hazardous areas. They can be used for plug-in connection for industrial LAN/Ethernet and USB applications with each other in areas with an explosion hazard. The normally used electrical isolation of an intrinsically safe interface is no longer necessary. The Ex-e technology of the connectors allows the use of full Ethernet power without barriers. This increases the efficiency of the bus architecture and reduces the susceptibility to faults and therefore the costs.

The sockets of the inlets and receptacles designed with Ex-de degree of protection have the proven CEAG contacts of shutter-like, punched and specially treated copper-beryllium band which provides a perfect electrical connection continuously with its large number of contact points. An Ex-d space around the plug pins provides a reliable explosion protection during connection and disconnection of the connectors in zones 1, 2, 21 and 22. To rule out incorrect assignment, the inlets and receptacles are coded according to time similar to the CEE system.

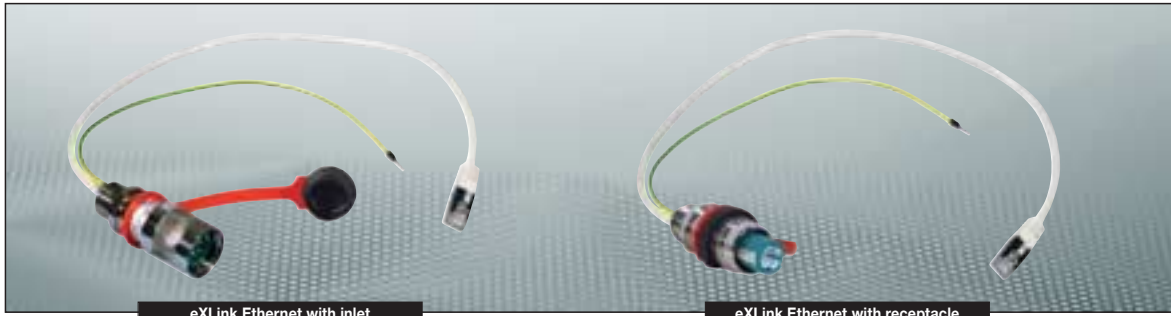
In accordance with the requirements of a contemporary, safe and time-saving assembly, all the components are equipped with earthing cables, cable stub and pre-assembled RJ plug male/female or USB plug male/female.

With the M20 screw-in thread the nickel-plated brass components (optionally stainless steel) can be integrated in all "enhanced safety" or "pressurised" design enclosures.

- Hot swap
- Compact design
- High degree of protection IP 66 / IP 68
- Simple assembly
- Frequency range up to 100 MHz or USB 2.0
- Transfer rate up to 100 MBaud (Ethernet)
- Available for 10 BASE-T, 100 BASE-T



| eXLink Ethernet 4-pole + PA |



Technical data

eXLink Ethernet 4-pole + PA

Marking to 94/9/EC type of protection	Ⓔ II 2 G / Ⓔ II 2 D T 52 °C EEx de IIC T6
EC-Type Examination Certificate	PTB 03 ATEX 1016 X
Permissible ambient temperature	-55 °C up to +40 °C
Store temperature in original wrapping	-55 °C up to +80 °C
Rated voltage	BUS
Rated current	max. 1 A
Frequency range	0-100 MHz, Fast Ethernet® compatible
Terminal cross section	Ethernet-cable 300 mm CAT 5e with plug RJ 45 male/female
Insulation class acc. EN 60598	I
Transmission performance acc. to TIA/EIA-568-B.2	Category 5e up to 100 Mbaud
Degree of protection EN 60529	IP66/IP68 with closed and locked protective caps or duly plugged and locked components
Enclosure material	Nickel plated brass / stainless steel 316L
Coding	1 h
Cable entry inlet and receptacle	M20 x 1.5 / 1/2" NPT
Accessories (option)	Locking device

Ordering details

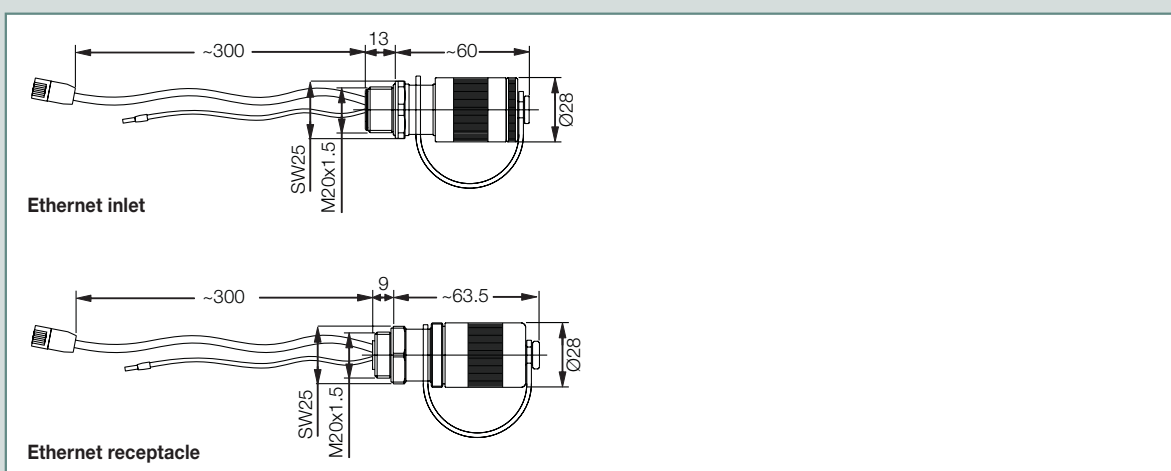
Scope of delivery (nickel plated brass)

Ethernet inlet with cable and RJ plug male
 Ethernet inlet with cable and RJ plug female
 Ethernet receptacle with cable and RJ plug male
 Ethernet receptacle with cable and RJ plug female

Order No.

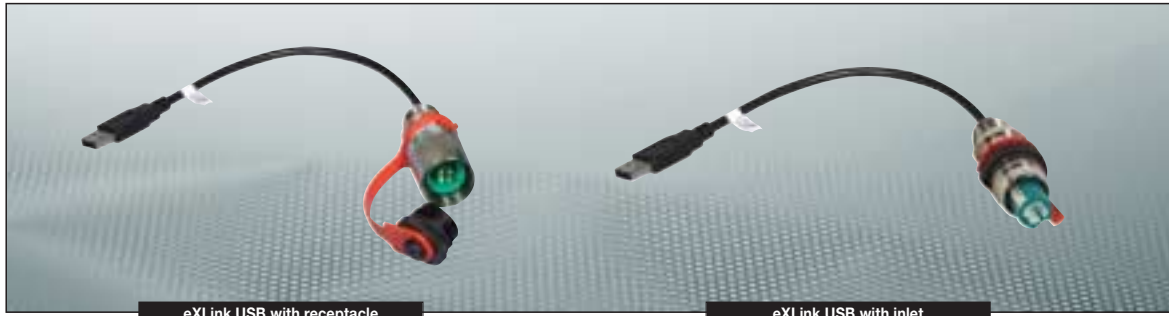
GHG 574 9101 R3002
GHG 574 9101 R3004
GHG 574 8101 R3002
GHG 574 8101 R3004

Dimension drawing



Dimensions in mm

| eXLink USB 4-pole |



Technical data

eXLink USB 4-pole

Marking to 94/9/EC type of protection	Ⓔ II 2 G / Ⓔ II 2 D T52 °C EEx de IIC T6
EC-Type Examination Certificate	PTB 03 ATEX 1016 X
Permissible ambient temperature	-55 °C up to +40 °C
Store temperature in original wrapping	-55 °C up to +80 °C
Rated voltage	BUS
Rated current	max. 1 A
Frequency range	USB 2.0
Terminal cross section	data cable 200 mm with USB plug/coupler
Insulation class acc. EN 60598	I
Degree of protection EN 60529	IP 66/IP 68 with closed and locked protective caps or duly plugged and locked components
Enclosure material	Nickel plated brass / stainless steel 316L
Coding	2 h
Cable entry inlet and receptacle	M20 x 1,5 / 1/2" NPT
Accessories	without locking device

Ordering details

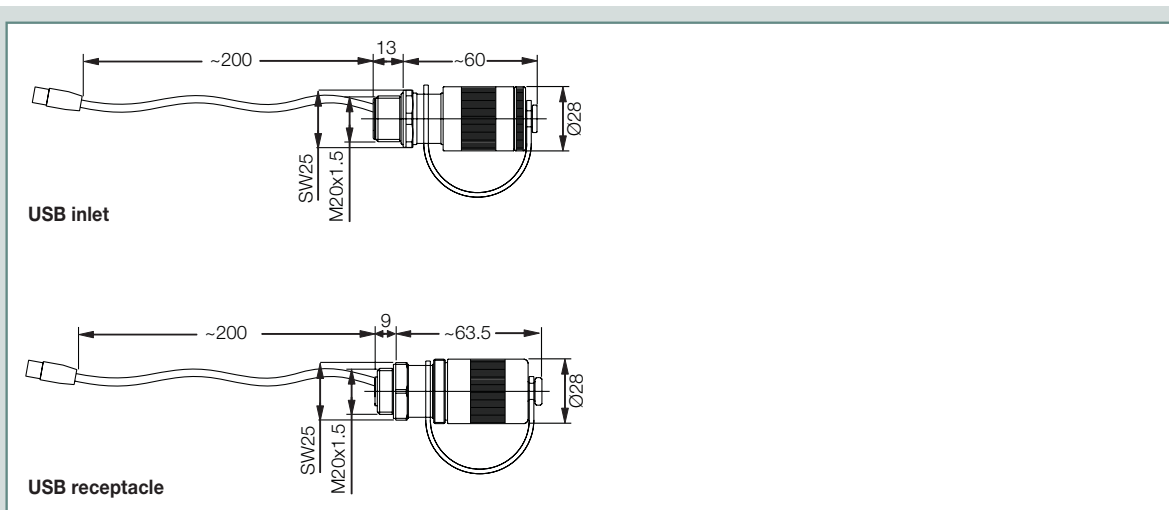
Scope of delivery (nickel plated brass)

Inlet with cable and USB plug male
 Inlet with cable and USB coupler female
 Receptacle with cable and USB plug female
 Receptacle with cable and USB plug male

Order No.

GHG 571 9102 R3003
GHG 571 9102 R3004
GHG 571 8102 R3003
GHG 571 8102 R3004

Dimension drawing



Dimensions in mm



Innovative connectors for Ethernet systems

Combine the safety of an innovative explosion-protected connector system with the advantages of a homogeneous communication structure between the host, control and process level! With **eXLink Ethernet** and **eXLink USB** you can also use efficient, Ethernet-based communication systems in the hazardous areas. This enables you to use a modern information architecture at the same time as efficiently satisfying all criteria for explosion protection.

Conventional field bus systems are designed exclusively for data communication with the process and production

control. With Ethernet as a communication medium you can implement a homogeneous infrastructure from the host level via the control level to the process level. In the industrial environment, **eXLink** connector systems replace the familiar connectors of the IT office world. Therefore this systems also offers you the real time performance of Ethernet networks – hot swap – in addition to high safety standards in areas with an explosion hazard.

Adapt your control to the changing production processes. Child's play with **eXLink** connectors because Ethernet components and explosion protection have a modular structure. This means that you can update your information architecture without having to change your explosion-protected installation by simply changing the components in their pressurised enclosures. You can use conventional industrial components because the explosion-protected connection to your network is provided by the **eXLink** installed in the enclosure which also enables hot swapping of your terminating equipment without isolating and without hot work permit.

The **eXLink** also put your data transmission on the safe side. Independent measurements of a well-known laboratory have classified the use of the **eXLink 4-pole + PA** up to 100 MHz and with transfer rates up to 100 Mbaud according to the requirements in accordance with TIA/EIA-568-B.2 Category 5e as safe. The limit curves were dropped below considerably here. The **eXLink 4-pole + PA** system can therefore be used in **Fast Ethernet®** or **Ethernet®** networks as well as for the implementation of explosion-protected USB interfaces such as hard disk driver.



Advanced technology with **eXLink** available by now



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